

SAFETY DATA SHEETS

This SDS packet was issued with item:

071030717

N/A

Kluber Lubrication Munchen KG

Patterson Dental Supply Product Code:
030725,71030717

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: W & H Service Oil
Manufacturer Name: Kluber Lubrication Munchen KG
Address:

GeisenhausenerstraBe 7
D-81379 Munchen

Emergency telephone no.: ++49-89-7876-0
Business Phone: ++49-89-7876-0 telephone exchange
Business Fax: ++49-89-7876-333
For information in North America, call: ++49-89-7876-0 telephone exchange
Manufacturer MSDS Revision Date: 29.8.1997

Safety Data Sheet conformable to EC directive 91/155 EEC

Product Codes:
028073

SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

Composition/Information:
Chemical characterization: (preparation)
synthetic hydrocarbon oil, ester oil

Additional information: None

SECTION 3 : HAZARDS IDENTIFICATION

No particular hazards known.

SECTION 4 : FIRST AID MEASURES

Eye Contact:
Rinse with plenty of water.
Skin Contact:
Wash off with soap and plenty of water.
Inhalation:

Not applicable

Ingestion:

Do not induce vomiting. Obtain medical attention.

Note to Physicians:

Treat symptomatically. If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5 : FIRE FIGHTING MEASURES

Fire:

Advice on protection against fire and explosion:
No special precautions required.

Flash Point:

Approx. 200 deg C

Flash Point Method:

DIN ISO 2592

Upper Flammable or Explosive Limit:

Not applicable

Lower Flammable or Explosive Limit:

Not applicable

Auto Ignition Temperature:

Not applicable deg C; Not applicable deg F

Extinguishing Media:

Water spray, foam, dry powder, carbon dioxide (CO2)

Unsuitable Media:

High volume water jet

Fire Fighting Equipment:

Standard procedure for chemical fires.

Additional Information:

Water mist may be used to cool closed containers. In the event of fire and/or explosion do not breathe fumes.

Special hazards:

In case of fire the following can be released: Carbon monoxide, hydrocarbons

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Risk of slipping due to leakage/spillage of product.

Spill Cleanup Measures:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with the regulations.

Environmental Precautions:

Do not flush into surface water or sanitary sewer system.

Additional information:

None

SECTION 7 : HANDLING and STORAGE

Handling:

Advice on safe handling:
Avoid formation of aerosol.

Storage:

Requirements on storage rooms and vessels:
No special storage conditions required

Incompatible materials:

Incompatible with oxidizing agents.

Further information on storage conditions:

Store at room temperature in the original container.

Advice on protection against fire and explosion:

No special precautions required.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

Hand Protection Description:

No special protective equipment required.

Eye/Face Protection:

No special protective equipment required.

Protective Clothing/Body Protection:

No special protective equipment required.

Respiratory Protection:

No special protective equipment required.

Other Protective:

No special protective equipment required.

Additional advice on system design: not applicable

Ingredients and specific control parameters: None

General protection and hygiene measures:

Clean skin thoroughly after work; apply skin cream.
Do not inhale aerosol.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:

Liquid

Color:

Colourless

Odor:

Mint-like

Vapor Pressure:

First: Not applicable

Solubility:

Water solubility: Insoluble

Density:

Approx 0.84 g/cm³, 20 deg C

Test Method: DIN 51757
Viscosity:
Kinematic: approx. 15 mm²/s, 40 deg C
Test Method: DIN 51562
Pour Point:
Test method: DIN ISO 3016
Flashpoint:
Approx. 200 deg C
Auto Ignition Temp:
Not applicable deg C; Not applicable deg F
Upper Flammable Explosive Limit:
Not applicable
Lower Flammable Explosive Limit:
Not applicable

Flash point: approx. 200 deg C
Test method: DIN ISO 2592

Ignition temperature: Not applicable deg C; Not applicable F

Explosive properties:
Lower explosion limit: Not applicable
Upper explosion limit: Not applicable

Further information: None

SECTION 10 : STABILITY AND REACTIVITY

Conditions to Avoid:
Do not heat above flash point.
Incompatibilities with Other Materials:
Materials to avoid: strong oxidizing agents
Hazardous Decomposition Products:
None under normal use.

Additional information:
None

SECTION 11 : TOXICOLOGICAL INFORMATION

Applies to All Ingredients:
Ingestion Effects:
LD50/oral/rat = > 2 g/kg (literature data)
Chronic Effects:
None
Other Toxicological Information:
Human experience: Health injuries are not known or expected under normal use.
Toxicological Paragraph:
The toxicological data has been taken from products of similar composition.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

The product has not been tested.
Effect of Material On Aquatic Life:
Aquatic toxicity is unlikely due to low solubility.

Information on elimination (persistence and degradability):
Product is insoluble in water. May be separated out mechanically in purification plants.

Behaviour in environmental compartments:
Ecological injuries are not known or expected under normal use.

Additional information:
Should not be released into the environment.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:

Dispose of in accordance with your local, state and federal regulations as used oil for reconditioning.

Dispose of contaminated packaging and recommended cleaning:
Offer rinsed packaging material to local recycling facilities.

SECTION 14 : TRANSPORT INFORMATION

IATA:

IATA-DGR: not applicable
Maritime Transportation CGVS/GGVE/IMDG: Code: not applicable

Land transport:
GGVS/GGVE: not applicable

Inland waterways transport:
ADN/ADNR: not applicable

Air transport:
ICAO: not applicable

Further information:
Not classified as dangerous in the meaning of transport regulations.

SECTION 15 : REGULATORY INFORMATION

Applies to all ingredients:
European Community Chemical Inventory Status:
Conformable to EC directive 91/155 EEC

Labelling according to EU-guidelines:
The product does not require a hazard warning label in accordance
with EC directives/German regulations on dangerous substances.

All components are accepted by LMBG (Germany) and/or FDA (USA).

SECTION 16 : ADDITIONAL INFORMATION

MSDS Revision Date:
29.8.1997

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid if the material is used in combination with any other materials or if it is processed, unless specified in the text.

Issue-department of safety Data Sheet: Chemical Documentation.
Tel.: +19-89-7876-564

Issue Date 27-Jan-2015

Revision Date 27-Jan-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name W & H Serviceoil F1 MD 200

Other means of identification

Product code: 028114

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Klüber Lubrication NA, LP
32 Industrial Drive
Londonderry, NH 03053
Phone: (603) 647-4104
Fax: (603) 647-4106

Emergency telephone number

Emergency Telephone CHEMTREC: 1-800-424-9300; INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Oil

Physical state Liquid

Odor Mild

Hazards not otherwise classified (HNOC)

Other information

• Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

18.695% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Components	CAS-No	Weight %	Trade Secret
2,6-Di-t-butyl-4-methylphenol (BHT)	128-37-0	< 0.25	*

4. FIRST AID MEASURES

First aid measures

Eye contact:	Flush eye with water for 15 minutes. If symptoms persist, call a physician.
Skin contact:	Rinse with plenty of water. If skin irritation persists, call a physician.
Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
Ingestion:	Do not induce vomiting. Consult a physician.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Carbon dioxide (CO₂). Dry chemical. Dry sand. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. Water may be used to cool closed containers.

Hazardous combustion products Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Contaminated surfaces will be extremely slippery. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Environmental precautions

Environmental precautions: Do not allow material to contaminate ground water system. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with oil absorbent material. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Do not breathe vapors or spray mist. Avoid contact with eyes and skin. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in original container. Keep tightly closed in a dry and cool place. Keep in properly labelled containers. Keep away from direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Contains mineral oil, vegetable oil, and/or synthetic oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg/m³, ACGIH STEL of 10 mg/m³.

Components	ACGIH TLV	OSHA (TWA mg/m ³):	IDLH:
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	2 mg/m ³ (Inhalable fraction and vapor)	(vacated) TWA: 10 mg/m ³	

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required.
Hand protection: Gloves made of plastic or rubber
Eye protection: Safety glasses with side-shields
Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect
General Hygiene Considerations Avoid contact with skin, eyes and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Oil **Odor** Mild **Color** Yellow **Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	<u>pH</u>	<u>Not applicable</u>
Melting point/freezing point	No information available		Boiling point / boiling range	No information available
Flash point	> 200 °C / > 392 °F	Cleveland Open Cup	Evaporation rate	No information available
Flammability (solid, gas)	No information available		Flammability Limit in Air	
Upper flammability limit:	No information available		Lower flammability limit:	No information available
Vapor pressure	< 0.001 hPa, 20°C		Vapor density	No information available
Specific Gravity	0.84		Water solubility	Insoluble in water
Solubility in other solvents	No information available		Partition coefficient	No information available
Autoignition temperature	No information available		Decomposition temperature	No information available

Kinematic viscosity	25 mm ² /s @ 40 °C	Dynamic viscosity	No information available
Explosive properties			No information available
Oxidizing properties			No information available

Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical stability

Stability	Stable under normal conditions
Possibility of Hazardous Reactions	
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid	No special storage conditions required
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Hazardous Decomposition Products

Hazardous Decomposition Products	None under normal processing
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Incompatible materials

Incompatible materials	Strong oxidising agents
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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information
Eye contact	May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation.
Inhalation	Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Components	Oral LD50	Dermal LD50	Inhalation LC50
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	= 2,930 mg/kg (Rat)	> 2,000 mg/kg (Rat)	-

Information on toxicological effects**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Sensitization	No sensitization responses were observed.
Mutagenic effects:	Did not show mutagenic or teratogenic effects in animal experiments.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
Components	2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0

ACGIH	-
IARC:	Group 3
NTP Report on Carcinogens List -	-
OSHA	-

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.
STOT - Single Exposure None under normal use conditions.
STOT - Repeated Exposure None under normal use conditions.
Aspiration hazard Not applicable.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 18.695% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5052 mg/kg
ATEmix (dermal) 5052 mg/kg
ATEmix (inhalation-dust/mist) 5.4 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

0.625% of the mixture consists of component(s) of unknown hazards to the aquatic environment

2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	
Algae/aquatic plants	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50
Fish	0.464 mg/l, 96 h, Fish
Crustacea	0.386 mg/l, 48 h, Daphnia magna

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

The product is insoluble and floats on water.

Components	Partition coefficient
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	4.17

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT Not Regulated

IATA-DGR Not Regulated

IMO / IMDG

Not Regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA: Listed in TSCA
DSL: Not listed in DSL

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK)**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Components	NJRTK:	MARTK:	PARTK:
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	Substance no. 0814 Listed.	Listed.	Listed.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION**Nfpa:**

Health: 1
Flammability: 1
Instability 0
NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *
HMIS health rating:
Health: 1
Flammability: 1
Physical hazards 0
Personal protection B

Issue Date 27-Jan-2015
Revision Date 27-Jan-2015
Revision Note
Not applicable

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End of Safety Data Sheet



SAFETY DATA SHEET

Issue Date 27-Jan-2015

Revision Date 27-Jan-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name W & H Service Oil F1 MD 500

Other means of identification

Product code: 028073

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Klüber Lubrication NA, LP
32 Industrial Drive
Londonderry, NH 03053
Phone: (603) 647-4104
Fax: (603) 647-4106

Emergency telephone number

Emergency Telephone CHEMTREC: 1-800-424-9300; INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Oil

Physical state Liquid

Odor Mild

Hazards not otherwise classified (HNOC)

Other information

• Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

23.1% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Components	CAS-No	Weight %	Trade Secret
1-Decene, dimer, hydrogenated	68649-11-6	1-10	*
2,6-Di-t-butyl-4-methylphenol (BHT)	128-37-0	< 0.25	*

4. FIRST AID MEASURES

First aid measures

Eye contact:	Flush eye with water for 15 minutes. If symptoms persist, call a physician.
Skin contact:	Rinse with plenty of water. If skin irritation persists, call a physician.
Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
Ingestion:	Do not induce vomiting. Consult a physician.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Carbon dioxide (CO₂). Dry chemical. Dry sand. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. Water may be used to cool closed containers.

Hazardous combustion products Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Contaminated surfaces will be extremely slippery. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Environmental precautions

Environmental precautions: Do not allow material to contaminate ground water system. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with oil absorbent material. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Do not breathe vapors or spray mist. Avoid contact with eyes and skin. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in original container. Keep tightly closed in a dry and cool place. Keep in properly labelled containers. Keep away from direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Contains mineral oil, vegetable oil, and/or synthetic oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg/m³, ACGIH STEL of 10 mg/m³.

Components	ACGIH TLV	OSHA (TWA mg/m ³):	IDLH:
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	2 mg/m ³ (Inhalable fraction and vapor)	(vacated) TWA: 10 mg/m ³	

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required.
Hand protection: Gloves made of plastic or rubber
Eye protection: Safety glasses with side-shields
Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect
General Hygiene Considerations Avoid contact with skin, eyes and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid				
Appearance Oil		Odor Mild	Color Yellow	Odor threshold No information available
Property	Values	Remarks • Method	pH	Not applicable
Melting point/freezing point	No information available		Boiling point / boiling range	No information available
Flash point	> 200 °C / > 392 °F	ISO 2592	Evaporation rate	No information available
Flammability (solid, gas)	No information available		Flammability Limit in Air	
Upper flammability limit:	No information available		Lower flammability limit:	No information available
Vapor pressure	< 0.17 hPa, 20°C		Vapor density	No information available
Specific Gravity	0.84		Water solubility	Insoluble in water
Solubility in other solvents	No information available		Partition coefficient	No information available

Autoignition temperature	No information available	Decomposition temperature	No information available
Kinematic viscosity	22 mm ² /s @ 40 °C	Dynamic viscosity	No information available
Explosive properties	No information available		
Oxidizing properties	No information available		

Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical stability

Stability Stable under normal conditions

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid No special storage conditions required

Hazardous Decomposition Products

Hazardous Decomposition Products None under normal processing

Incompatible materials

Incompatible materials Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Eye contact May cause slight irritation.

Skin contact Prolonged contact may cause redness and irritation.

Inhalation Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Components	Oral LD50	Dermal LD50	Inhalation LC50
1-Decene, dimer, hydrogenated - 68649-11-6	> 5,000 mg/kg (Rat)	> 3,000 mg/kg (Rabbit)	1.17 mg/l, 4 h (Rat) dust/mist
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	= 2,930 mg/kg (Rat)	> 2,000 mg/kg (Rat)	-

Information on toxicological effects**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Sensitization No sensitization responses were observed.

Mutagenic effects:	Did not show mutagenic or teratogenic effects in animal experiments.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
Components	2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0
ACGIH	-
IARC:	Group 3
NTP Report on Carcinogens List -	-
OSHA	-
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards.
STOT - Single Exposure	None under normal use conditions.
STOT - Repeated Exposure	None under normal use conditions.
Aspiration hazard	Not applicable.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity	23.1% of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document .	
ATEmix (oral)	5052 mg/kg
ATEmix (dermal)	5052 mg/kg
ATEmix (inhalation-dust/mist)	5.4 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

0.625% of the mixture consists of component(s) of unknown hazards to the aquatic environment

1-Decene, dimer, hydrogenated - 68649-11-6	
Algae/aquatic plants	> 1,000 mg/l, 72 h, Scenedesmus capricornutum
Fish	> 1,000 mg/l, 96 h, Oncorhynchus mykiss
Crustacea	> 1,000 mg/l, 48 h, Daphnia magna
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	
Algae/aquatic plants	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50
Fish	0.464 mg/l, 96 h, Fish
Crustacea	0.386 mg/l, 48 h, Daphnia magna

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

The product is insoluble and floats on water.

Components	Partition coefficient
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	4.17

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT Not Regulated

IATA-DGR Not Regulated

IMO / IMDG Not Regulated

15. REGULATORY INFORMATION

International Inventories

TSCA: Listed in TSCA

DSL: All of the components in this product are listed in DSL

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK)

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Components	NJRTK:	MARTK:	PARTK:
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	Substance no. 0814 Listed.	Listed.	Listed.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATIONNfpa:

Health: 1

Flammability: 1

Instability 0

NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *

HMIS health rating:

Health: 1

Flammability: 1

Physical hazards 0

Personal protection B

Issue Date 27-Jan-2015

Revision Date 27-Jan-2015

Revision Note

Not applicable

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End of Safety Data Sheet